



FIG Working Week 2016

CHRISTCHURCH, NEW ZEALAND 2-6 MAY 2016

Recovery

from disaster

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EARTHQUAKE IN PALU AREAS AS AN INDICATION OF ACTIVE FAULTS IN PALU-KORO, CENTRAL SULAWESI, INDONESIA

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From Indonesia

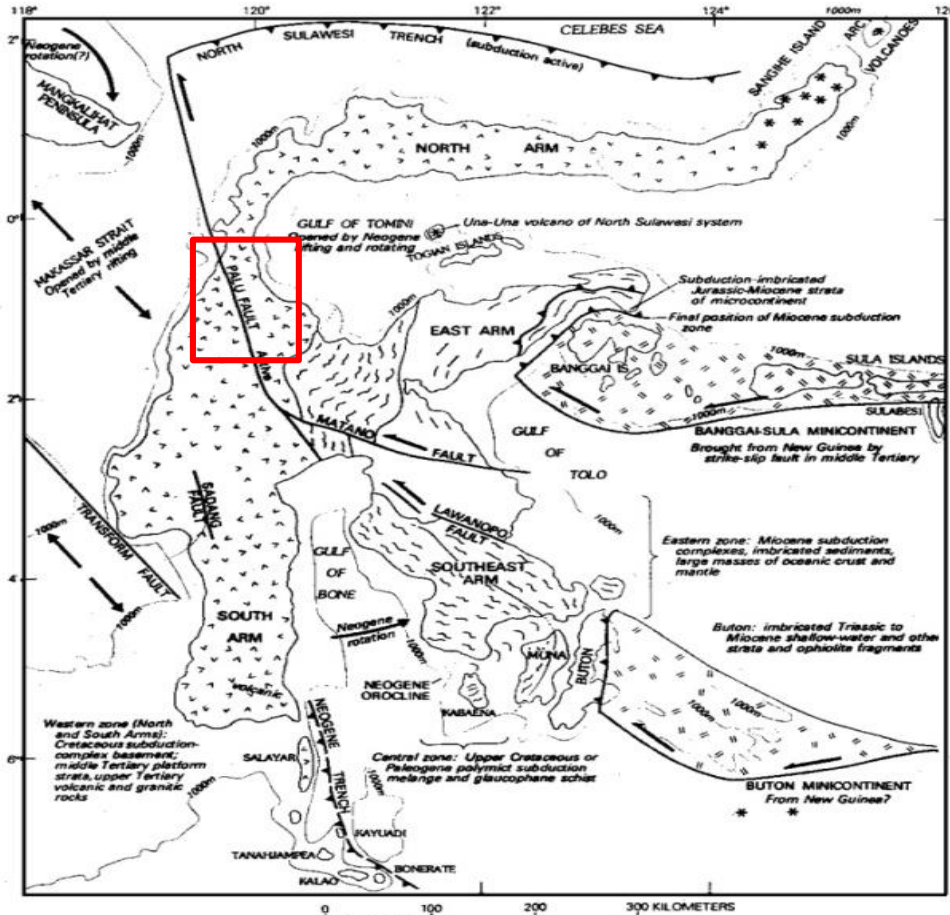


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Sulawesi Island is an island which is complex because there is a junction of three tectonic plates between the Indian ocean plate-Australia plate, or often called the Eurasian plate and the Pacific plate exposure to Sunda (Surono, 2010). Central Sulawesi is part of the active tectonics. As a product of subduction, which produce geological phenomena such as volcanism and tectonic activities. This region is one of the Indonesia earthquake zone XIX numbers due to Palu-Koro faulting (Geological Research and Development Centre, 2003). Records mention seismicity in this region is very high (BMKG Palu, 2012).



Research Methods

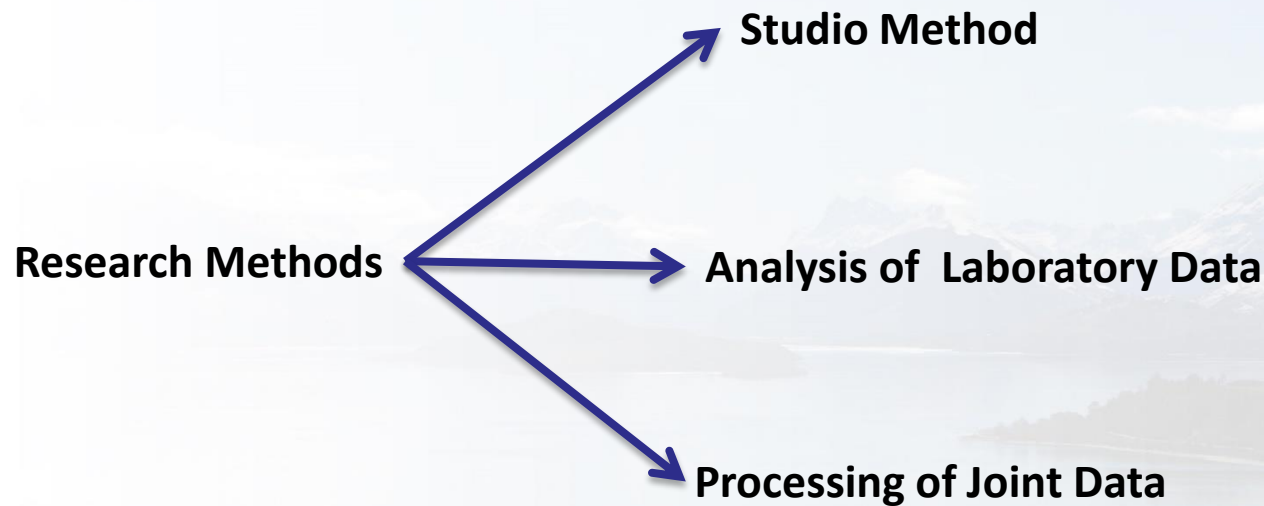




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Results and Discussion



The triangular escarpment on the western facet has a height greater than the triangular escarpment on the eastern facet, as well as the slope of the valley. The lithology is constituent in the eastern part of Sulawesi. The earthquake data collected from BMKG (The Meteorology, Climatology and Geophysics Council) determine the western part of Palu in Central Sulawesi has more active tectonic movement with lithological constituent of granite rocks.





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Determination of the earthquake fracture movement is often called the focal mechanism. The focal mechanism of the earthquake would occur if the fault related to the area which has earthquake over 5 Scala Richter. It also damage the areas sorrounded. The data recorded in the focal mechanism

From the all analysis data above look that the Palu-Koro Fault is an active fault which has important role as an indication of the earthquake in Central Sulawesi, while it is also controlled by minor faults at the western and eastern part of Palu-Koro Fault. Palu-Koro Fault could be determined as an active faults, as shown by the activeness of the morphology product and earthquake data in Central Sulawesi.

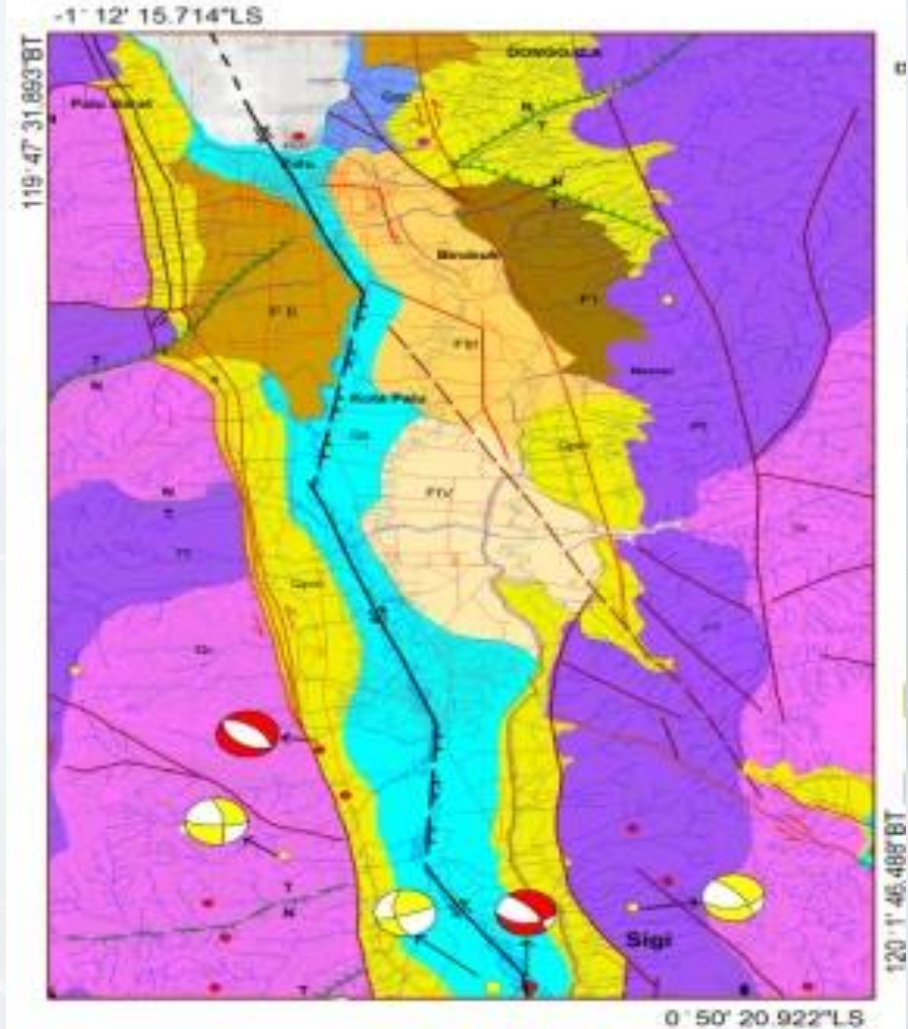




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